

Philippines

Worldwide, over 500,000 women and girls die of complications related to pregnancy and childbirth each year. Over 99 percent of those deaths occur in developing countries such as the Philippines. But maternal deaths only tell part of the story. For every woman or girl who dies as a result of pregnancy-related causes, between 20 and 30 more will develop short- and long-term disabilities, such as obstetric fistula, a ruptured uterus, or pelvic inflammatory disease (see box on page 2).

The Philippines' maternal mortality rate continues at an unacceptably high level. While maternal mortality figures vary widely by source and are highly controversial, the best estimates for the Philippines suggest that approximately 4,100 to 4,900 women and girls die each year due to pregnancy-related complications. Additionally, another 82,000 to 147,000 Filipino women and girls will suffer from disabilities caused by complications during pregnancy and childbirth each year.¹

The tragedy – and opportunity – is that most of these deaths can be prevented with cost-effective health care services. Reducing maternal mortality

and disability will depend on identifying and improving those services that are critical to the health of Filipino women and girls, including antenatal care, emergency obstetric care, adequate postpartum care for mothers and babies, and family planning and STI/HIV/AIDS services. With this goal in mind, the Maternal and Neonatal Program Effort Index (MNPI) is a tool that reproductive health care advocates, providers, and program planners can use to:

- Assess current health care services;
- Identify program strengths and weaknesses;
- Plan strategies to address deficiencies;
- Encourage political and popular support for appropriate action; and
- Track progress over time.

Health care programs to improve maternal health must be supported by strong policies, adequate training of health care providers, and logistical services that facilitate the provision of those programs. Once maternal and neonatal programs and policies are in place, all women and girls must be ensured equal access to the full range of services.

At-A-Glance: Philippines

Population, mid-2001	77.2 million
Average age at first marriage, all women	22 years
Births attended by skilled personnel	56%
Total fertility rate (average number of children born to a woman during her lifetime)	3.5
Females giving birth by age 20	21%
Children who are exclusively breastfed at ages less than 6 months	37%
Contraceptive use among married women, ages 15-49, modern methods	32%
Abortion policy, 2000	Prohibited, or permitted only to save a woman's life.

Sources: Population Reference Bureau – 2002 *Women of Our World*; 2001 *World Population Data Sheet*; *The World Youth, 2000*; and 1999 *Breastfeeding Patterns in the Developing World* (see <http://www.worldpop.org/datafinder.htm>).

Understanding the Causes of Maternal Mortality and Morbidity

Maternal mortality refers to those deaths which are caused by complications due to pregnancy or childbirth. These complications may be experienced during pregnancy or delivery itself, or may occur up to 42 days following childbirth. For each woman who succumbs to maternal death, many more will suffer injuries, infections, and disabilities brought about by pregnancy or childbirth complications, such as obstetric fistula.² In most cases, however, maternal mortality and disability can be prevented with appropriate health interventions.³

Some of the direct medical causes of maternal mortality include hemorrhage or bleeding, infection, unsafe abortion, hypertensive disorders, and obstructed labor. Other causes include ectopic pregnancy, embolism, and anesthesia-related risks.⁴ Conditions such as anemia, diabetes, malaria, sexually transmitted infections (STIs), and others can also increase a woman's risk for complications during pregnancy and childbirth, and, thus, are indirect causes of maternal mortality and morbidity. Since most maternal deaths occur during delivery and during the postpartum period, emergency obstetric care, skilled birth attendants, postpartum care, and transportation to medical facilities if complications arise are all necessary components of strategies to reduce maternal mortality.⁵ These services are often particularly limited in rural areas, so special steps must be taken to increase the availability of services in those areas.

Efforts to reduce maternal mortality and morbidity must also address societal and cultural factors that impact women's health and their access to services. Women's low status in society, lack of

access to and control over resources, limited educational opportunities, poor nutrition, and lack of decision-making power contribute significantly to adverse pregnancy outcomes. Laws and policies, such as those that require a woman to first obtain permission from her husband or parents, may also discourage women and girls from seeking needed health care services – particularly if they are of a sensitive nature, such as family planning, abortion services, or treatment of STIs.

One traditional practice that affects maternal health outcomes is early marriage. Many women in developing countries marry before the age of 20. Pregnancies in adolescent girls, whose bodies are still growing and developing, put both the mothers and their babies at risk for negative health consequences.

The consequences of maternal mortality and morbidity are felt not only by women but also by their families and communities. Children who lose their mothers are at an increased risk for death or other problems, such as malnutrition. Loss of women during their most productive years also means a loss of resources for the entire society.

Ensuring safe motherhood requires recognizing and supporting the rights of women and girls to lead healthy lives in which they have control over the resources and decisions that impact their health and safety. It requires raising awareness of complications associated with pregnancy and childbirth, providing access to high quality health services (antenatal, delivery, postpartum, family planning, etc.), and eliminating harmful practices.

The Maternal and Neonatal Program Effort Index

In 1999, around 750 reproductive health experts evaluated and rated maternal and neonatal health services as part of an assessment in 49 developing countries.⁶ The results of this study comprise the MNPI, which provides both international and country-specific ratings of relevant services. Using a tested methodology for rating programs and services,⁷ 10 to 25 experts in each country – who were familiar with but not directly responsible for the country's maternal health programs – rated 81 individual aspects of maternal and neonatal health services on a scale from 0–5. For convenience, each score was then multiplied by 20 to obtain an index that runs from 0–100, with 0 indicating a low score and 100 indicating a high score.

The 81 items are drawn from 13 categories, including:

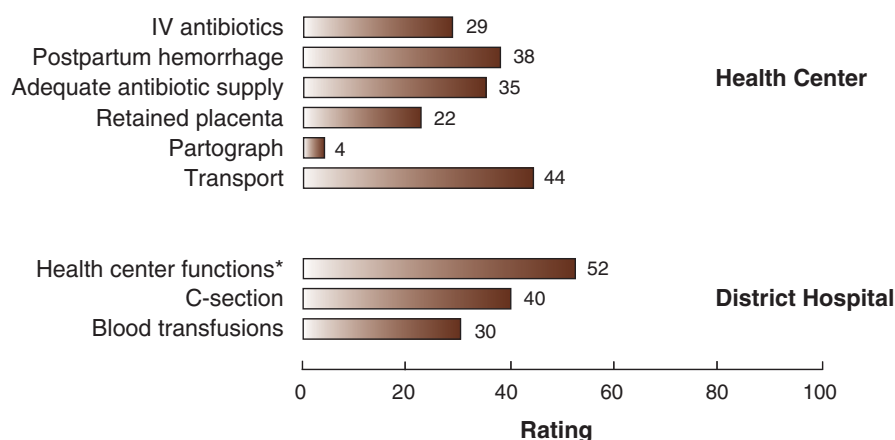
- Health center capacity;
- District hospital capacity;
- Access to services;
- Antenatal care;
- Delivery care;
- Newborn care;
- Family planning services at health centers;
- Family planning services at district hospitals;
- Policies toward safe pregnancy and delivery;
- Adequacy of resources;
- Health promotion;
- Staff training; and
- Monitoring and research.

Items from these categories can be grouped into five types of program effort: service capacity, access, care received, family planning, and support functions. The following five figures, organized by type of program effort, present the significant indicators from the Philippines study.

Service Capacity

Overall, the Philippines' service capacity to provide emergency obstetric care received a rating of 37 out of 100. Figure 1 shows the ratings of the capacity of health centers and district hospitals to provide specific services. In general, both health centers and district hospitals received low to moderate ratings for providing these services. Arrangements to transport a woman quickly to a district hospital should complications arise (44) was the most commonly available service at health centers in the Philippines, while using the partograph (4) was the least available service. District hospitals received a moderate rating of 52 for providing a range of health center functions, and received lower ratings for performing Cesarean-sections (40) and blood transfusions (30). Both health center and district hospital services in the Philippines generally received lower ratings when compared to services in other countries from the East and Southeast Asia region.

Figure 1. Service capacity of health centers and district hospitals in the Philippines

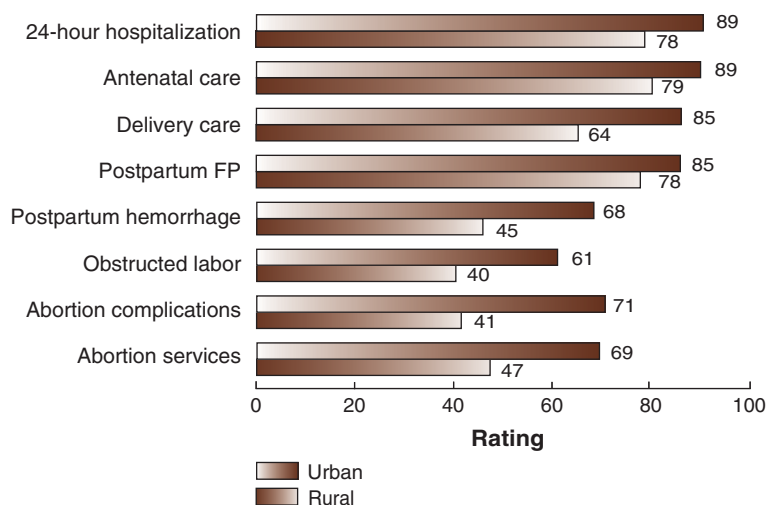


*Refers to all those functions performed by the health center

Access

In most developing countries, access to safe motherhood services in rural areas is more limited than in urban areas. This issue is significant for the Philippines since more than half of its population (53 percent) lives in rural areas.⁸ Overall, the Philippines received a rating of 68 for access, with an average of 59 for rural access and 77 for urban access. Figure 2 presents the rural and urban access ratings for eight services. There are disparities in the rural and urban access ratings, with the largest gaps being found in treatment for abortion complications (41 vs. 71, respectively), treatment for postpartum hemorrhage (45 vs. 68), delivery care (64 vs. 85), and treatment for obstructed labor (40 vs. 61). Rural access ratings range from a low of 40 for treatment for obstructed labor to a high of 79 for antenatal care, suggesting the need to improve access to a variety of services. While urban access received higher ratings, these ratings also indicate much room for improvement.

Figure 2. Comparisons of access to services for rural and urban areas in the Philippines



Care Received

In most countries, newborn services are rated higher than delivery care or antenatal care, and this was the case for the Philippines as well. Overall, care received was given a rating of 61, with newborn care receiving an average rating of 73 compared to a rating of 59 for delivery and 51 for antenatal care. Figure 3 presents key indicators for each type of care. One of the more important indicators of maternal mortality is the presence of a trained attendant at birth,⁹ which received a rating of 58. Other crucial elements that reduce maternal mortality are emergency obstetric care and the 48-hour postpartum checkup, which are rated 51 and 47, respectively. Syphilis testing (33) and voluntary HIV counseling and testing (38) were given the lowest ratings for care received.

Figure 3. Antenatal, delivery and newborn care received in the Philippines

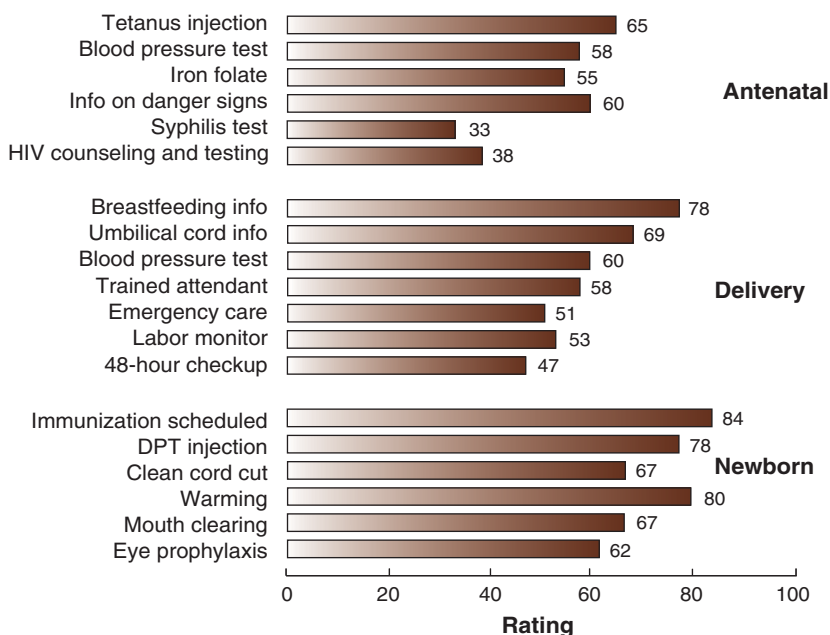
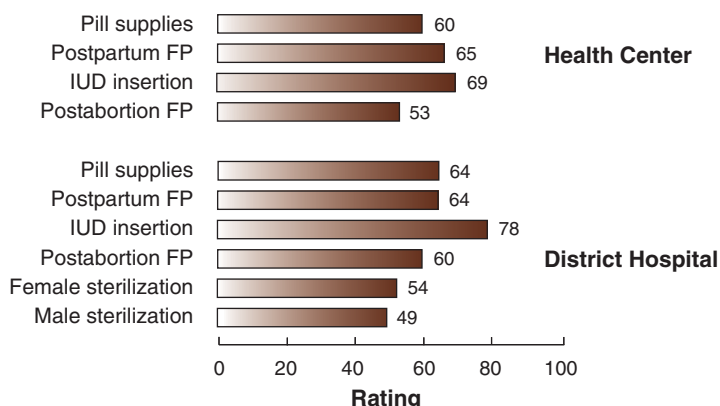


Figure 4. Provision of family planning services at health centers and district hospitals in the Philippines

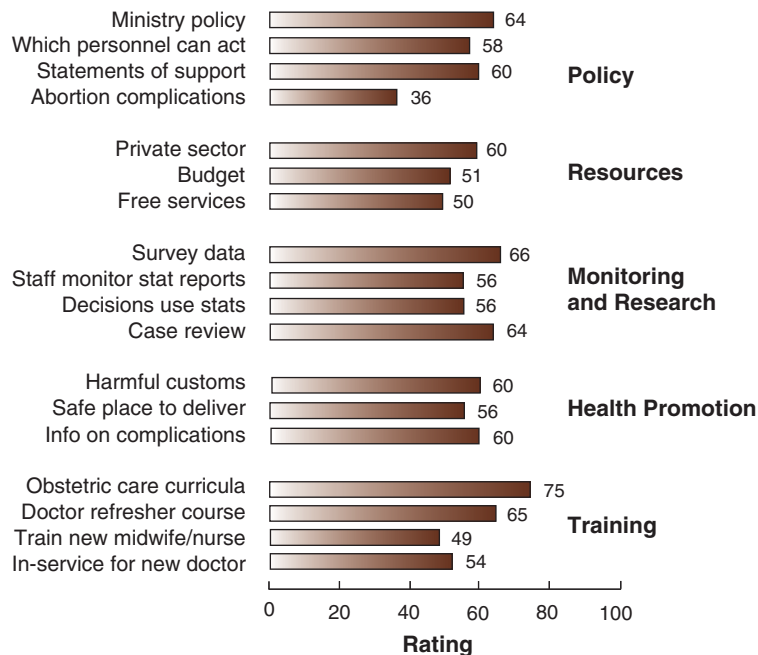


Family Planning

Family planning services provided by the Philippines' health centers and district hospitals together received a rating of 60. Figure 4 presents the ratings for individual family planning services provided by health centers and district hospitals. These ratings consider facility capacity, access, and care received. IUD insertion was the highest rated service for both health centers (69) and district hospitals (78). Postabortion family planning (53) was the lowest rated service at health centers, while male sterilization (49) was the lowest rated service at district hospitals.

Policy and Support Functions

Figure 5. Policy and support functions in the Philippines



Policy and support functions in the Philippines received an overall rating of 58. Ratings for support functions, shown in Figure 5, are divided into the following categories: policy, resources, monitoring and research, health promotion, and training. In relation to the other support functions, policy generally received the highest ratings. The Philippines' ministry-level policy received a rating of 64. Commitment to this policy, however, needs to be reinforced through more frequent statements to the press and public by high-level government officials – an aspect of policy that received a rating of 60. Policies regarding which personnel can provide maternal health services (58) and treatment for abortion complications (36) should also be developed.

Policies, even when they are adopted, do not automatically translate into quality services at the local level. Many of the support functions in the Philippines, including resources, monitoring and research, health promotion, and training, are in need of further development. In terms of resources, the government budget (51) and the availability of free services (50) received lower ratings than the private sector (60). The ratings also suggest that the Philippines is in need of improved monitoring and research capabilities, particularly systems whereby staff at the national level monitor routine statistical reports (56) and ministry administrators effectively use information for making decisions on strategies to reduce maternal mortality (56).

Health promotion and education of the public are important adjuncts to the provision of maternal health services. Topics such as safe places to deliver (56), harmful customs (60), and pregnancy complications (60) require attention. Mass media should be used to educate the public about pregnancy and delivery, and community-based organizations should assist these efforts through systematic programs.

Finally, the education and training of health professionals is an integral part of providing high quality care and preventing maternal death and disability. In the Philippines, medical curricula including hands-on obstetric care training (75) have been developed to some degree. However, actual training received lower ratings, particularly with regard to training for new midwives and nurses (49) and in-service training for newly hired doctors (54).

Global Comparisons

Overall, the experts gave maternal and neonatal health services in the Philippines a rating of 56, which is equal to the average of 56 for the 49 countries involved in the MNPI study. This rating places services in the Philippines 27th among the 49 countries. Services in the Philippines

ranked fifth out of the six countries studied from the East and Southeast Asia region.¹⁰ While comparisons across countries should be made with a certain degree of caution – given the subjective nature of expert opinions and evaluations in different countries – these comparisons may help maternal health care advocates and providers in the Philippines identify priority action areas. It is also important to keep in mind that average scores may mask the differences among provinces within each country.

Table 1 compares the Philippines' scores to the global averages for nine selected items of the MNPI. The table shows that the Philippines' ratings for maternal and neonatal health slightly outpace the global averages in a number of key areas. In particular, the Philippines received higher ratings than the global assessment with regard to rural access to safe motherhood services (59 vs. 39, respectively), urban access to safe motherhood services (77 vs. 68), and voluntary counseling and testing for HIV (38 vs. 30). The highest rated services in the Philippines are breastfeeding advice (78) and urban access (77). One area in which the Philippines lagged behind the global average is adequate maternal health policy (64 vs. 72). The services receiving the lowest ratings – and perhaps requiring urgent attention – are voluntary counseling and testing for HIV (38) and 48-hour postpartum checkup (47).

Table 1. Comparison of global and Philippines MNPI scores for selected items, 1999

Indicators of Maternal and Neonatal Services	Global Assessment (49 country average)	Philippines
Access to safe motherhood services by pregnant women*		
Rural access	39	59
Urban access	68	77
Able to receive emergency obstetric care	55	51
Provided appointment for postpartum checkup within 48 hours	41	47
Immunization**	76	76
Encouraged to begin immediate breastfeeding	74	78
Offered voluntary counseling and testing for HIV	30	38
Postabortion family planning	54	57
Adequate maternal health policy	72	64
Adequate budget resources	48	51
Overall rating	56	56
*Refers to composite scores for all the rural and urban access items.		
**Refers to a composite of three immunization items: maternal tetanus immunization, DPT immunization, and other immunizations scheduled.		

Summary

The MNPI ratings indicate that the Philippines does relatively well when considering urban access to safe motherhood services and hands-on obstetric care curricula. To some degree, the Philippines has also developed national policies regarding maternal health. The country must now work to expand access to high quality services and programs at the local level. There are disparities in rural and urban access to many services. Moreover, women in all regions need greater access to delivery care, including skilled attendants at birth, postpartum checkups within 48 hours of

delivery, and emergency obstetric care. While women have reasonable access to some family planning services (e.g., IUD insertion), other services – such as pill supplies and postpartum family planning – are more limited. Voluntary counseling and testing for HIV is also limited. Finally, as in most developing countries, maternal and neonatal health care services in the Philippines face resource shortages – particularly in terms of government allocations and free services – that hamper expansion of programs to adequately meet the needs of women.

Priority Action Areas

The following interventions have been shown to improve maternal and neonatal health and should be considered in the Philippines' effort to strengthen maternal and neonatal health policies and programs.

- Increase access to reproductive health, sexual health, and family planning services, especially in rural areas.** Due to the lack of access to care in rural areas, maternal death rates are higher in rural areas than in urban areas. In addition, many men and women in rural and urban areas lack access to information and services related to HIV/AIDS and other STIs.
- Strengthen reproductive health and family planning policies and improve planning and resource allocation.** While the MNPI scores demonstrate that many countries have strong maternal health policies, implementation of the policies may be inadequate. Often, available resources are insufficient or are used inefficiently. In some cases, advocacy can strengthen policies and increase the amount of resources devoted to reproductive health and family planning. In other cases, operational policy barriers – barriers to implementation and full financing of reproductive health and family planning policies – must be removed.
- Increase access to and education about family planning.** Another feature that relates closely to preventing maternal mortality is the provision of family planning. Family planning helps women prevent unintended pregnancies and space the births of their children. It thus reduces their exposure to risks of pregnancy, abortion, and childbirth. Reliable provision of a range of contraceptive methods can help prevent maternal deaths associated with unwanted pregnancies.
- Increase access to high quality antenatal care.** High quality antenatal care includes screening and treatment for STIs, anemia, and detection and treatment of hypertension. Women should be given information about appropriate diet and other healthy practices and about where to seek care for pregnancy complications. The World Health Organization's recommended package of antenatal services can be conducted in four antenatal visits throughout the pregnancy.
- Increase access to skilled delivery care.** Delivery is a critical time in which decisions about unexpected, serious complications must be made. Skilled attendants – health professionals such as doctors or midwives – can recognize these complications, and either treat them or refer women to health centers or hospitals immediately if more advanced care is needed. Women in rural areas live far distances from quality obstetric care, so improvements depend greatly on early recognition of complications, better provisions for emergency treatment, and improved logistics for rapid movement of complicated cases to district hospitals. Increased medical coverage of deliveries, through additional skilled staff and service points, are basic requirements for improving delivery care. Reliable supply lines and staff retraining programs are also critical.
- Provide prompt postpartum care, counseling, and access to family planning.** It is important to detect and immediately manage problems that may occur after delivery, such as hemorrhage, which is responsible for about 25 percent of maternal deaths worldwide. Postpartum care and counseling will help ensure the proper care and health of the newborn. Counseling should include information on breastfeeding, immunization, and family planning.
- Improve postabortion care.** About 13 percent of maternal deaths worldwide are due to unsafe abortion. Women who have complications resulting from abortion need access to prompt and high quality treatment for infection, hemorrhage, and injuries to the cervix and uterus.
- Strengthen health promotion activities.** Mass media should be used to educate the public about pregnancy and delivery, and community-level organizations should assist this through systematic programs. An important step for health promotion, in order to prevent negative maternal health outcomes, is to have the Ministry of Health supply adequate educational materials regarding safe practices.

References

- ¹ The sources used to calculate these figures are the 1998 Philippines DHS and the 1995 WHO/UNICEF/UNFPA estimate of maternal mortality. See National Statistics Office (NSO), Department of Health (Philippines) and Macro International. 1999. *National Demographic and Health Survey 1998*. Manila: NSO and Macro International. Also see Hill, K., C. AbouZahr, and T. Wardlaw. 2001. "Estimates of Maternal Mortality for 1995." *Bulletin of the World Health Organization* 79 (3): 182-193.
- ² Obstetric fistula occurs as a result of a prolonged and obstructed labor, which in turn is further complicated by the presence of female genital cutting. The pressure caused by the obstructed labor damages the tissues of the internal passages of the bladder and/or the rectum and, with no access to surgical intervention, the woman can be left permanently incontinent, unable to hold urine or feces, which leak out through her vagina. (UNFPA Press Release, July 2001)
- ³ MEASURE Communication. 2000. *Making Pregnancy and Childbirth Safer*. (Policy Brief) Washington, DC: Population Reference Bureau. Available at <http://www.prb.org/template.cfm?Section=PRB&template=/ContentManagement/ContentDisplay.cfmContentID=2824>
- ⁴ World Health Organization. 2001. *Advancing Safe Motherhood through Human Rights*. Available at http://www.who.int/reproductive-health/publications/RHR_01_5_advancing_safe_motherhood/RHR_01_05_table_of_contents_en.html
- ⁵ Dayaratna, V., W. Winfrey, K. Hardee, J. Smith, E. Mumford, W. McGreevey, J. Sine, and R. Berg. 2000. *Reproductive Health Interventions: Which Ones Work and What Do They Cost?* (Occasional Paper No. 5) Washington, DC: POLICY Project. Available at <http://www.policyproject.com/pubs/occasional/op-05.pdf>
- ⁶ The MNPI was conducted by the Futures Group and funded by the U.S. Agency for International Development (USAID) through the MEASURE Evaluation Project. For more information on the MNPI, see Bulatao, R. A., and J. A. Ross. 2000. *Rating Maternal and Neonatal Health Programs in Developing Countries*. Chapel Hill, NC: MEASURE Evaluation Project, University of North Carolina, Carolina Population Center.
- ⁷ This methodology for rating policies and programs was originally developed for family planning and has also been used for HIV/AIDS. See Ross, J. A., and W. P. Mauldin. 1996. "Family Planning Programs: Efforts and Results, 1972-1994." *Studies in Family Planning* 27 (3): 137-147. Also see UNAIDS, USAID, and POLICY Project. 2001. "Measuring the Level of Effort in the National and International Response to HIV/AIDS: The AIDS Program Effort Index (API)." Geneva: UNAIDS.
- ⁸ Population Reference Bureau. 2001. *2001 World Population Data Sheet*. Washington, DC: Population Reference Bureau. Available at http://www.prb.org/Content/NavigationMenu/Other_reports/2000-2002/sheet4.html
- ⁹ In the MNPI survey instrument, the term "trained" was used because it is empirically concrete whereas "skilled" is more subjective. Asking respondents about skill levels would require them to judge the probable quality of the original training and the deterioration of skills over time. While knowing about skills is really more critical, it throws more subjectivity into the data and, as a factual matter, skills were not measured.
- ¹⁰ Countries in the East and Southeast Asia region that were included in this index are: Cambodia, China, Indonesia, Myanmar, Philippines, and Vietnam.

For More Information

A complete set of results, including more detailed data and information, has already been sent to each of the participating countries. For more information, contact:

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